

Middle East & Africa Transcritical CO2 Market Forecast to 2030 - Regional Analysis - By Application (Ice Skating Rinks, Food Processing & Storage Facilities, Heat Pumps, Supermarkets & Convenience Stores, and Others) and Function (Air Conditioning, Refrigeration, and Heating)

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Abstracts

The Middle East & Africa transcritical CO2 market is expected to grow from US\$ 1,061.21 million in 2023 to US\$ 2,254.90 million by 2030. It is estimated to grow at a CAGR of 11.4% from 2023 to 2030.

Growing Adoption of Integrated Transcritical CO2 Systems Fuel the Middle East & Africa Transcritical CO2 Market

One unique advantage of transcritical CO2 systems is their ability to provide both cooling and heating capabilities. Supermarkets and convenience stores can benefit from the heat reclaim feature of transcritical CO2 systems, where waste heat from the refrigeration process is captured and repurposed for heating applications, such as space heating or hot water production. This integrated heating capability can significantly reduce energy consumption and costs associated with separate heating systems, providing additional operational efficiency and cost savings for retailers. The integrated heating capabilities of transcritical CO2 systems align with the growing emphasis on energy efficiency and sustainability. By utilizing waste heat for heating purposes, these systems maximize energy utilization and reduce the reliance on separate heating systems. This aligns with the goals of reducing greenhouse gas emissions and minimizing energy consumption. Thus, the transcritical CO2 market is expected to witness growing adoption of integrated transcritical CO2 systems during the forecast period.

Middle East & Africa Transcritical CO2 Market Overview

The food retail industry in the Middle East & Africa (MEA) is witnessing significant growth, creating opportunities for both local and international players. The evolving consumer preferences, increasing urbanization, and changing retail landscape in the region present a dynamic market for food retailers and manufacturers.

Transcritical CO₂ systems are widely used in modern supermarkets and hypermarkets for refrigeration and cooling applications. These systems can efficiently maintain the desired temperature for various food products, such as fresh produce, dairy, meat, and frozen goods. Thus, the growing food retail industry in the MEA contributes to the increasing adoption of transcritical CO₂ systems. In May 2021, the installation of the second transcritical CO₂ (R744) refrigeration system by TEKO, a German OEM, at the storage facility in Rishon LeZion marks a significant step for The Mania Group, an Israeli meat producer with a chain of supermarkets and convenience stores.

Middle East & Africa Transcritical CO₂ Market Revenue and Forecast to 2030 (US\$ Million)

Middle East & Africa Transcritical CO₂ Market Segmentation

The Middle East & Africa transcritical CO₂ market is segmented into category, application, and country

Based on application, the Middle East & Africa transcritical CO₂ market is segmented into ice skating rinks, food processing & storage facilities, heat pumps, supermarkets & convenience stores, and others. The supermarkets and convenience stores segment held the largest share of the Middle East & Africa transcritical CO₂ market in 2023.

Based on function, the Middle East & Africa transcritical CO₂ market is segmented into air conditioning, refrigeration, and heating. The refrigeration segment held the largest share of the Middle East & Africa transcritical CO₂ market in 2023.

Based on country, the Middle East & Africa transcritical CO₂ market is segmented into the South Africa, Saudi Arabia, UAE, and the Rest of Middle East & Africa. The UAE dominated the Middle East & Africa transcritical CO₂ market in 2023.

Baltimore Aircoil Co, BITZER Kuhlmaschinenbau GmbH, Carrier Global Corp, Danfoss AS, Emerson Electric Co, Panasonic Holdings Corp, and Mayekawa Manufacturing Co Ltd are some of the leading companies operating in the Middle East & Africa transcritical CO₂ market.

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